

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970420

Luminaire Tested: **NAV-SB6B-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-750-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36706.3 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

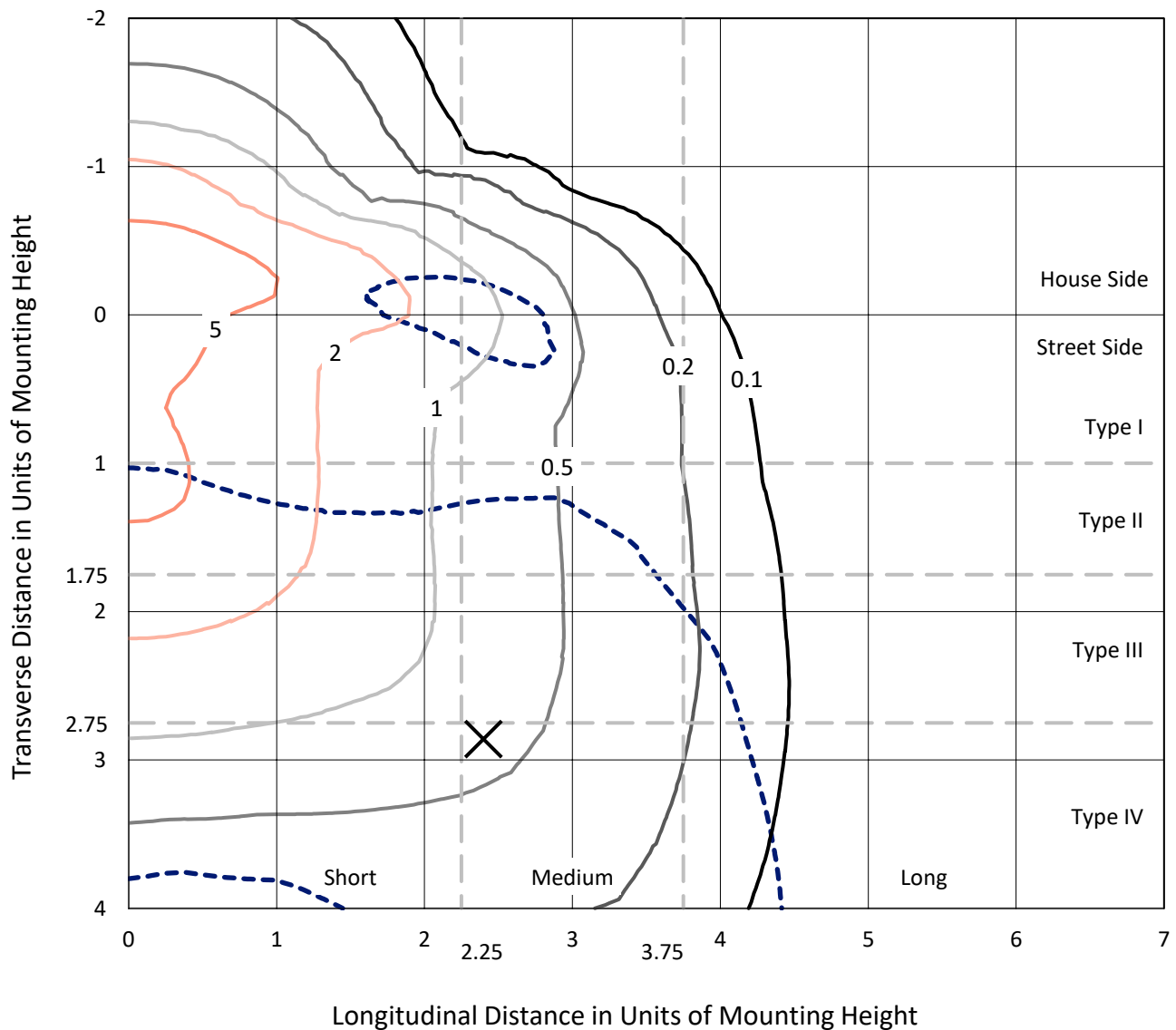
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

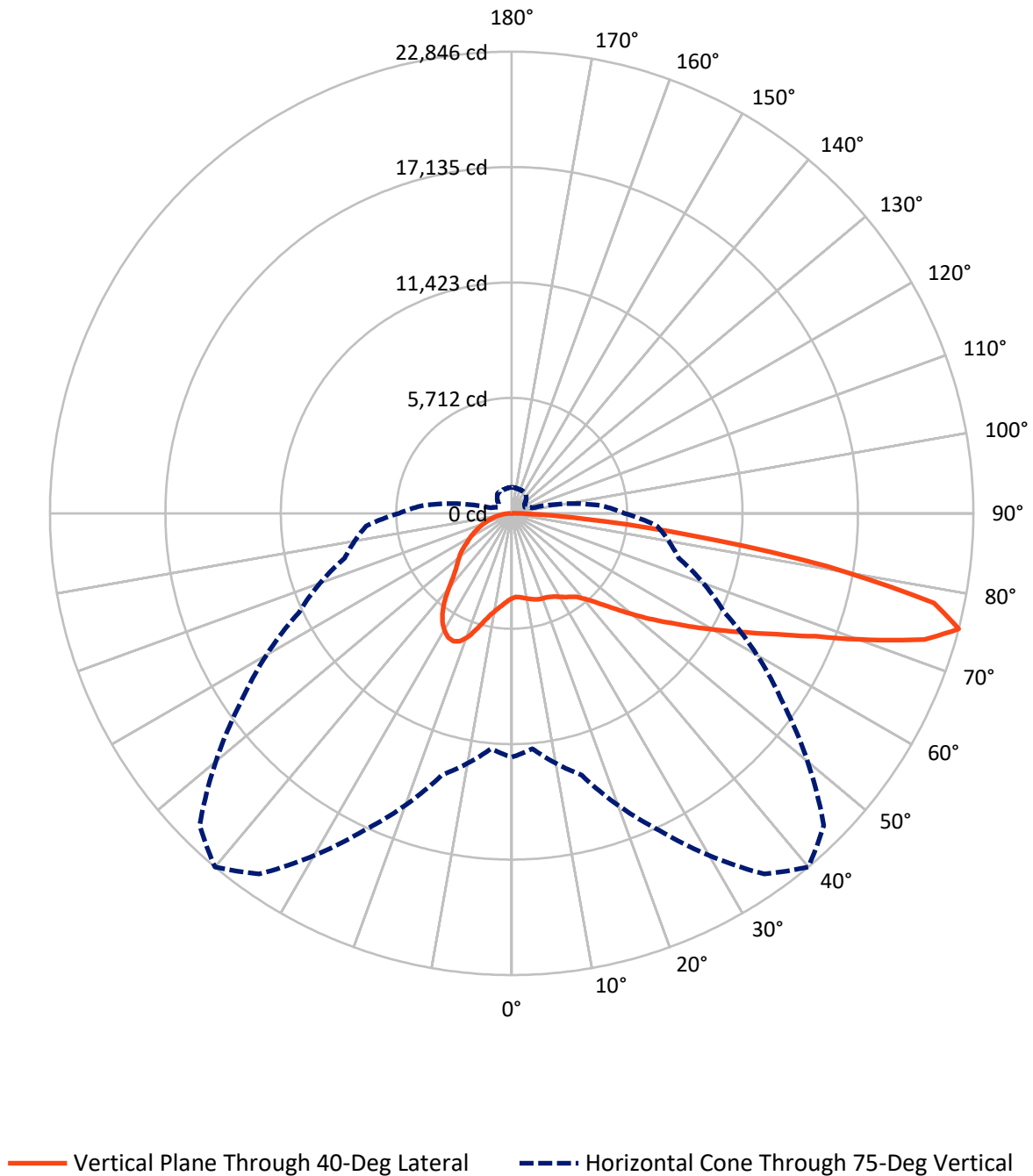
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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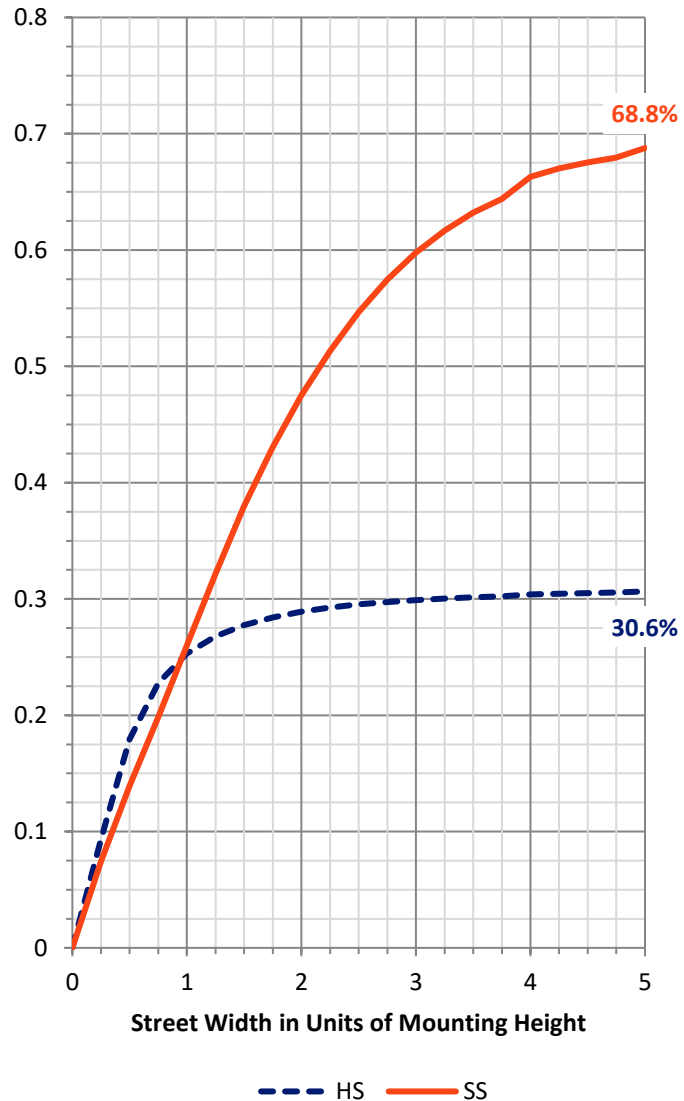
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11372.8	0.0	11372.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25333.4	0.0	25333.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	36706.3	0.0	36706.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	1.1
10°-20°	1406.7	3.8
20°-30°	2568.5	7.0
30°-40°	3642.9	9.9
40°-50°	4919.0	13.4
50°-60°	6617.4	18.0
60°-70°	8399.0	22.9
70°-80°	7622.6	20.8
80°-90°	1111.1	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36706.3	100.0
0°-180°	36706.3	100.0

Coefficient of Utilization



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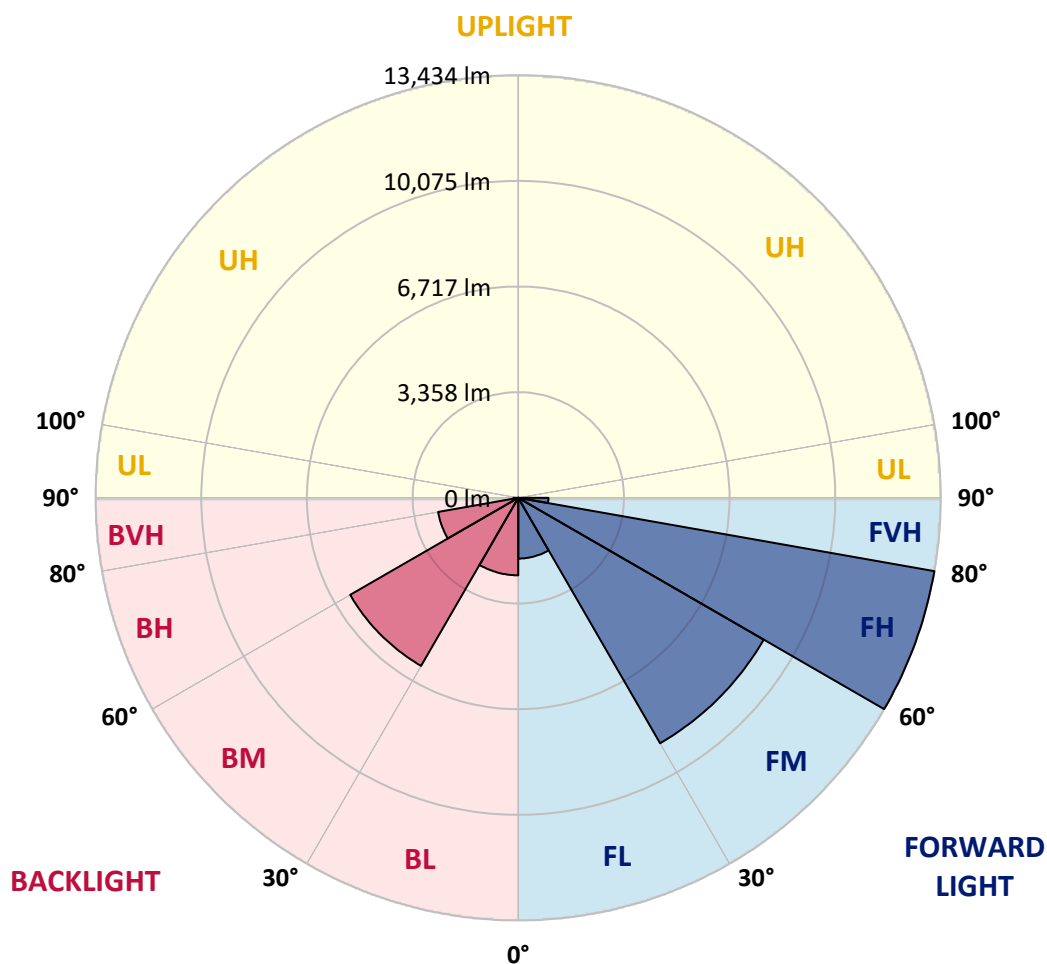
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1930.8	5.3			
FM	(30°-60°)	9010.6	24.5			
FH	(60°-80°)	13433.9	36.6			G5
FVH	(80°-90°)	958.2	2.6			G5
BL	(0°-30°)	2463.5	6.7	B3/2500		
BM	(30°-60°)	6168.7	16.8	B4/8500		
BH	(60°-80°)	2587.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	153.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4
2.5°	4133.2	4156.5	4150.7	4142.9	4142.9	4144.9	4142.9	4156.5	4170.1	4183.7	4205.2
5°	4176.0	4199.3	4187.6	4177.9	4170.1	4168.2	4162.3	4160.4	4168.2	4185.7	4214.9
7.5°	4259.7	4283.1	4265.5	4248.0	4232.4	4224.6	4216.8	4205.2	4199.3	4209.1	4250.0
10°	4353.2	4376.5	4355.1	4324.0	4298.6	4288.9	4281.1	4269.4	4261.6	4267.5	4312.3
12.5°	4446.7	4469.9	4440.8	4398.0	4364.9	4359.0	4349.3	4345.4	4343.4	4341.5	4386.3
15°	4534.2	4553.7	4516.7	4466.0	4431.1	4421.3	4411.6	4417.4	4427.2	4438.9	4489.4
17.5°	4602.4	4621.8	4567.3	4501.1	4468.0	4464.1	4458.3	4477.7	4505.0	4534.2	4596.5
20°	4664.7	4684.1	4614.0	4524.5	4485.5	4485.5	4487.4	4528.3	4567.3	4610.1	4695.8
22.5°	4752.3	4767.9	4682.2	4559.5	4503.0	4506.9	4522.5	4563.4	4612.1	4670.5	4789.2
25°	4882.7	4894.4	4789.2	4625.7	4561.5	4573.1	4586.8	4606.2	4653.0	4721.2	4880.7
27.5°	5092.9	5102.7	4964.5	4742.6	4645.2	4664.7	4684.1	4670.5	4691.9	4750.4	4954.7
30°	5388.8	5394.7	5219.5	4925.5	4787.3	4797.0	4800.9	4744.5	4703.6	4750.4	5007.3
32.5°	5739.3	5737.3	5529.1	5147.4	4948.9	4939.2	4906.1	4795.1	4699.7	4740.6	5054.1
35°	6282.5	6261.1	5992.5	5458.9	5131.9	5071.6	4993.7	4851.5	4719.2	4730.9	5094.9
37.5°	7182.0	7115.8	6743.9	5969.1	5404.4	5250.7	5135.8	4943.1	4762.0	4727.0	5143.6
40°	8196.2	8112.6	7703.7	6667.9	5813.3	5566.1	5381.1	5073.5	4832.1	4744.5	5215.6
42.5°	9399.4	9280.7	8840.6	7491.5	6331.1	5973.0	5694.5	5239.0	4935.3	4800.9	5313.0
45°	10877.1	10719.3	10096.4	8420.2	6983.3	6506.4	6134.5	5490.1	5092.9	4910.0	5458.9
47.5°	12370.3	12409.3	11523.5	9483.1	7766.0	7164.4	6685.5	5867.8	5322.7	5085.1	5694.5
50°	13957.0	13984.3	12942.7	10660.9	8653.8	7908.1	7304.6	6290.3	5642.0	5334.4	6046.9
52.5°	15195.2	15199.1	14231.5	11893.3	9578.5	8725.8	7972.3	6773.1	6011.8	5665.4	6516.1
55°	15970.0	15960.3	15134.8	13059.5	10641.4	9584.4	8712.2	7322.1	6463.5	6054.7	7106.0
57.5°	16532.6	16503.4	15757.8	14062.1	11774.6	10598.7	9549.3	7945.1	6997.0	6518.1	7882.8
60°	16746.9	16729.3	16180.2	14928.4	12966.0	11720.1	10515.0	8642.1	7602.4	7065.1	8881.5
62.5°	16828.6	16861.7	16595.0	15767.6	14241.2	12962.2	11575.9	9475.3	8283.8	7684.2	9934.8
65°	17116.7	17177.1	17122.5	16865.6	15681.9	14416.4	12983.6	10466.3	9027.6	8348.1	11034.7
67.5°	17687.2	17747.5	17770.8	18179.7	17441.8	16228.9	14739.6	11700.6	9897.8	9037.3	11862.1
70°	17673.6	17656.0	18068.7	19225.2	19645.7	18738.4	17106.9	13219.1	10935.4	9609.7	11967.3
72.5°	16086.9	15946.6	16922.0	19213.5	21479.6	21358.9	19998.1	15177.7	11831.1	9679.8	10384.5
75°	12068.6	11694.7	13417.7	17315.3	21785.2	22846.3	21835.9	16392.5	11618.8	8552.5	7226.8
77.5°	5161.1	4785.3	6815.9	12818.0	19497.8	21357.0	20149.9	14301.6	9274.8	5655.6	3549.1
80°	1351.2	1349.2	2059.7	5811.3	13260.0	15771.5	13836.3	9235.9	5299.4	2020.8	979.3
82.5°	558.7	545.1	757.4	2260.3	6479.1	8850.4	7222.9	4119.6	1913.8	547.0	325.1
85°	208.3	206.3	368.0	780.6	2285.6	3650.3	2641.8	1053.3	476.9	266.7	146.1
87.5°	58.4	56.5	79.8	270.6	556.8	844.9	451.7	173.2	134.4	105.2	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4	4197.4
2.5°	4211.0	4220.7	4238.3	4251.9	4269.4	4288.9	4316.2	4333.7	4351.2	4362.9	4355.1
5°	4228.5	4250.0	4294.8	4339.5	4392.1	4440.8	4497.2	4538.1	4571.2	4580.9	4584.8
7.5°	4267.5	4302.5	4378.5	4454.4	4538.1	4617.9	4699.7	4769.7	4826.2	4847.6	4849.6
10°	4335.6	4382.4	4489.4	4596.5	4707.5	4830.1	4935.3	5036.5	5116.3	5149.4	5151.3
12.5°	4421.3	4479.7	4619.9	4767.9	4921.6	5091.0	5227.3	5351.9	5451.2	5495.9	5495.9
15°	4532.2	4608.2	4787.3	4985.9	5211.7	5447.3	5620.6	5758.8	5869.8	5924.3	5920.4
17.5°	4653.0	4754.3	4980.1	5279.9	5603.1	5912.6	6115.0	6216.3	6331.1	6383.7	6381.8
20°	4769.7	4894.4	5217.6	5653.7	6083.9	6412.9	6576.5	6603.8	6611.6	6617.3	6632.9
22.5°	4890.5	5058.0	5515.4	6124.8	6586.2	6814.0	6837.4	6720.5	6557.0	6481.1	6502.5
25°	5022.9	5244.8	5904.8	6644.6	7018.4	7045.6	6866.6	6582.3	6272.8	6130.6	6152.0
27.5°	5151.3	5460.9	6372.0	7141.1	7329.9	7090.4	6704.9	6302.0	5928.2	5778.2	5795.8
30°	5279.9	5708.1	6888.0	7575.2	7472.0	6979.4	6449.9	6000.1	5624.5	5466.7	5484.3
32.5°	5410.3	5996.4	7481.8	7888.6	7446.7	6743.9	6132.6	5661.5	5330.5	5165.0	5186.4
35°	5558.3	6350.6	8044.4	8060.0	7277.3	6397.3	5714.0	5256.5	4968.4	4836.0	4865.2
37.5°	5751.0	6800.4	8540.8	8102.8	6981.4	5889.2	5194.2	4777.5	4540.0	4479.7	4522.5
40°	5990.5	7341.6	8920.5	8034.7	6543.4	5272.1	4625.7	4292.8	4158.4	4172.1	4218.8
42.5°	6302.0	7947.0	9187.2	7859.4	5934.0	4635.5	4127.4	3979.4	4043.6	4098.2	4148.8
45°	6706.9	8575.9	9352.7	7561.5	5244.8	4096.2	3833.4	3868.3	3917.0	3922.9	3961.8
47.5°	7224.8	9212.5	9461.7	7111.9	4542.0	3716.5	3646.4	3654.2	3644.5	3603.6	3634.8
50°	7871.1	9831.6	9559.0	6516.1	3944.3	3479.1	3385.6	3358.3	3224.0	3091.6	3109.1
52.5°	8607.0	10400.1	9599.9	5776.3	3479.1	3280.4	3128.6	2957.2	2706.1	2665.2	2678.8
55°	9424.7	10925.7	9494.8	4867.1	3087.7	3025.4	2795.7	2589.4	2562.1	2527.0	2532.9
57.5°	10402.0	11492.3	9280.7	3852.8	2686.6	2727.5	2503.7	2527.0	2478.3	2423.8	2414.1
60°	11470.9	12078.3	8904.9	2928.0	2272.0	2355.7	2427.7	2425.8	2412.1	2367.3	2351.8
62.5°	12432.6	12463.7	8165.0	2242.8	1907.9	2067.5	2264.2	2262.3	2250.6	2225.3	2215.5
65°	13005.0	12405.4	6930.7	1765.8	1608.1	1830.0	2042.2	2057.8	2059.7	2057.8	2057.8
67.5°	12903.7	11722.0	5237.0	1405.6	1360.9	1588.6	1822.2	1843.7	1859.2	1863.1	1867.0
70°	11759.0	10221.0	3414.8	1121.4	1140.8	1376.5	1614.0	1635.4	1649.0	1664.6	1672.4
72.5°	9165.8	7514.9	1954.7	907.2	948.1	1193.4	1407.5	1432.8	1440.6	1469.8	1481.5
75°	5585.5	4419.4	1055.2	714.5	778.7	1020.2	1203.1	1232.4	1246.0	1281.0	1284.9
77.5°	2655.5	1913.8	601.6	556.8	626.9	833.2	1016.3	1049.4	1012.4	1031.9	1016.3
80°	897.5	710.6	379.7	424.5	478.9	650.3	813.7	846.9	769.1	765.2	757.4
82.5°	313.4	288.1	241.4	282.3	309.5	465.2	615.2	658.0	572.4	570.4	543.1
85°	122.7	116.8	134.4	153.9	184.9	286.2	405.0	426.4	352.4	284.2	280.3
87.5°	25.3	27.3	33.1	35.1	56.5	99.3	146.1	179.1	142.2	120.7	111.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)